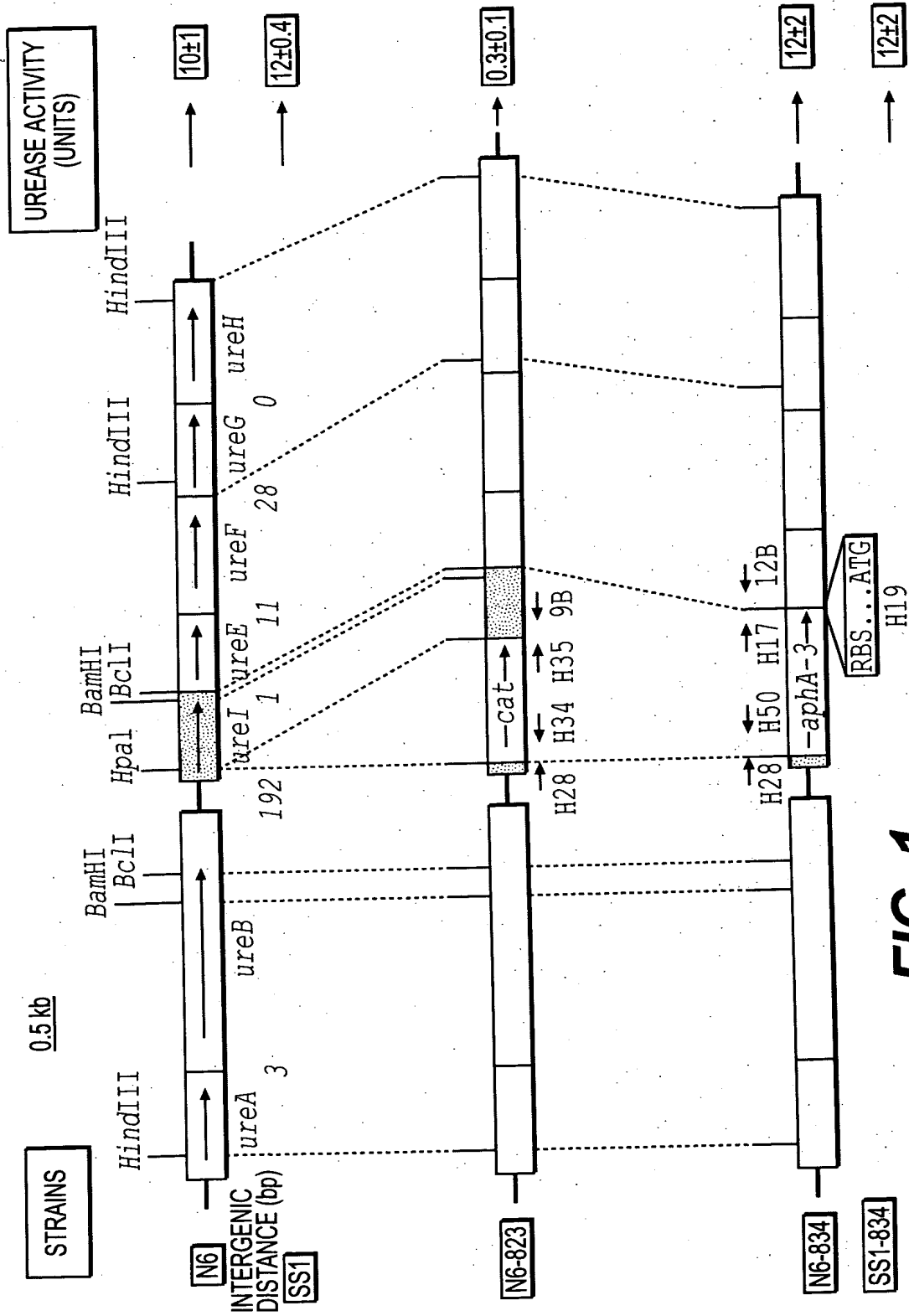
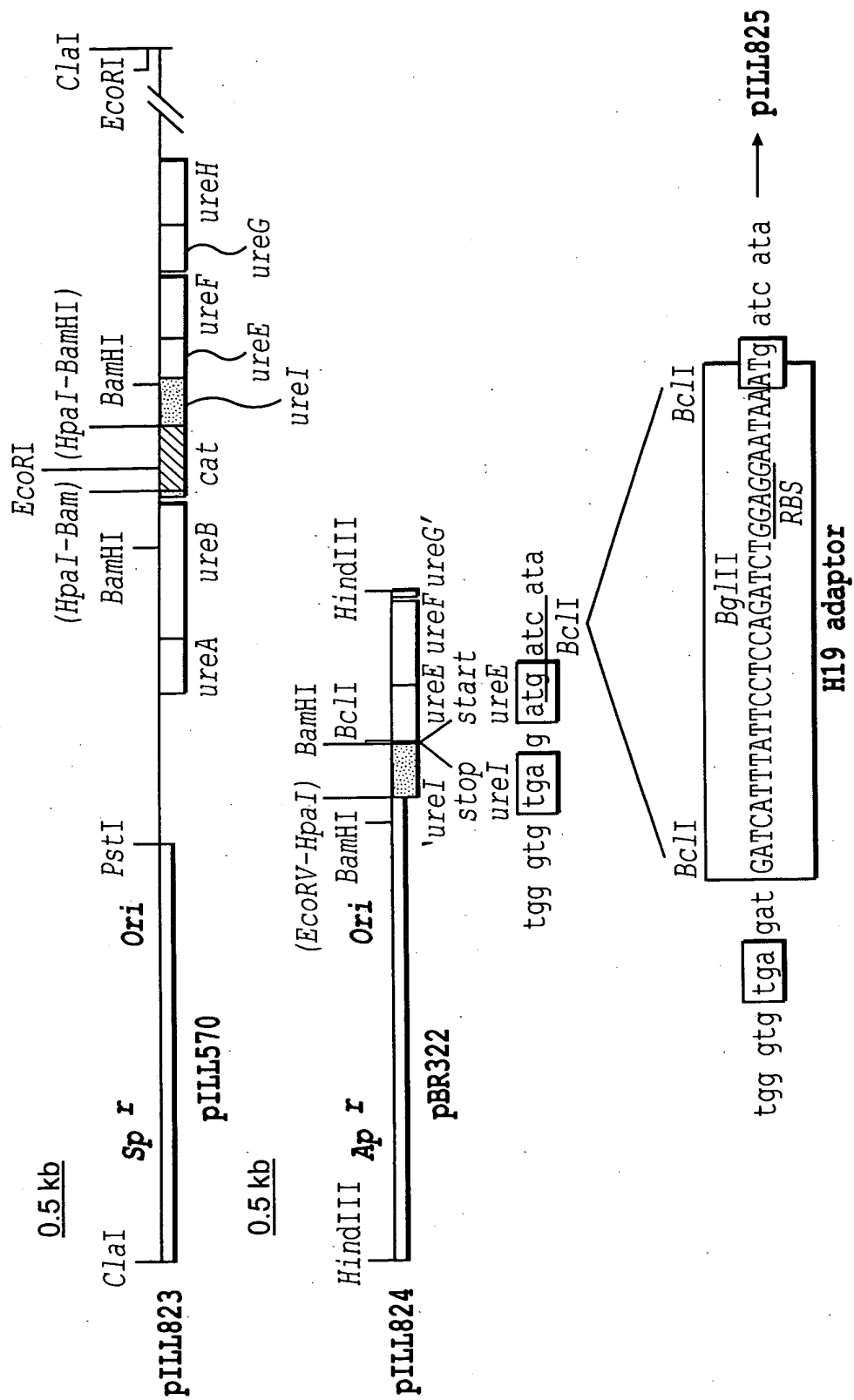


# Replacement Sheet

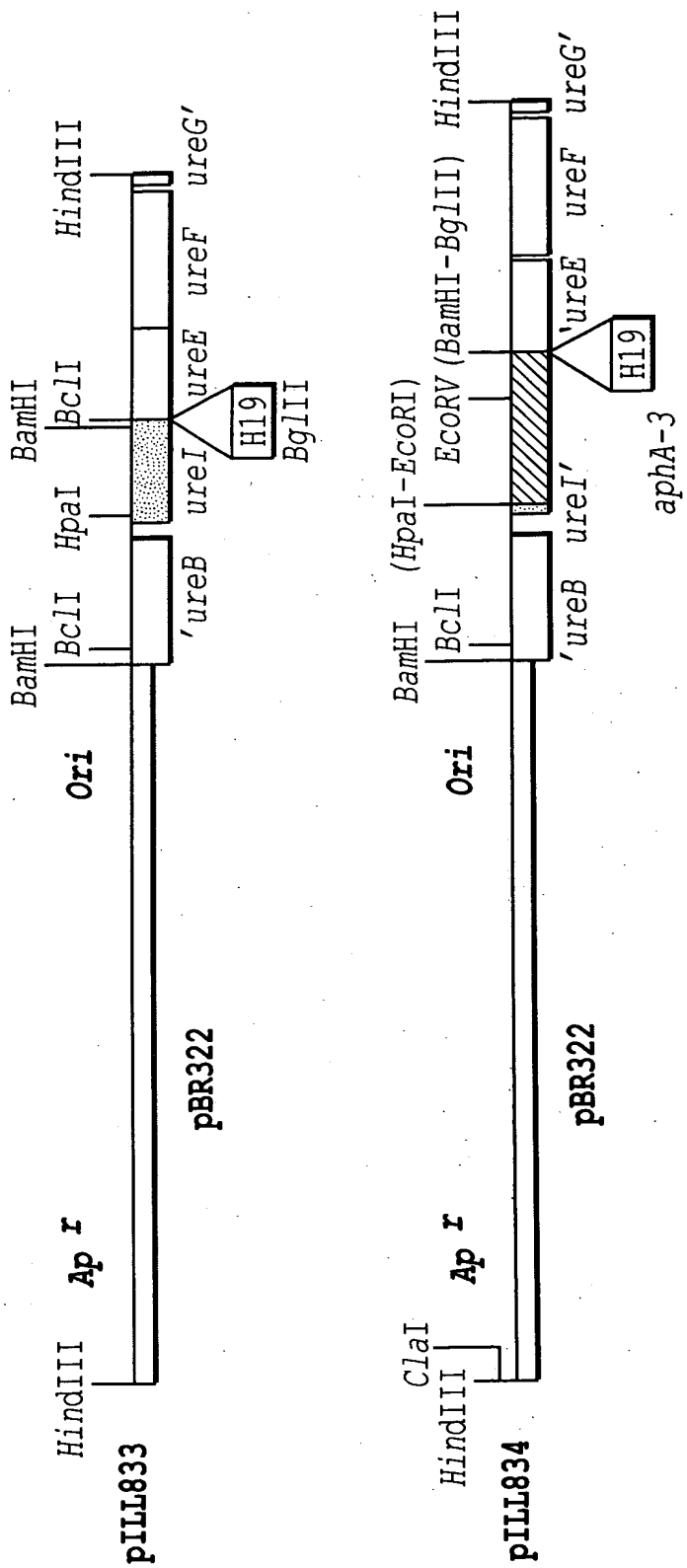


**FIG. 1**



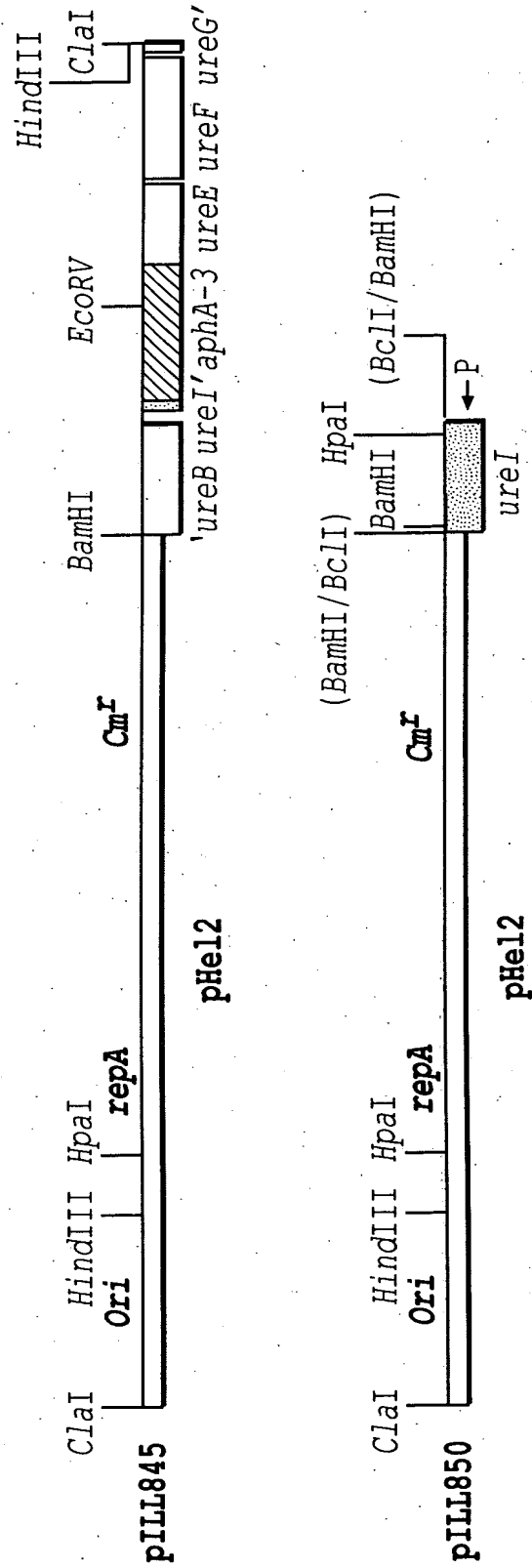
**FIG. 2A1**

# Replacement Sheet



# FIG. 2A2

# Replacement Sheet



**FIG. 2B**

Urel-Hp	48	M	L	G	L	V	L	L	Y	V	G	I	V	L	I	S	N	G	I	C	G	L	T	K	V	D	P	K	S	T	A	V	M	N	I	F	V	G	G	L	S	I	C	N	V	-	V	I	I			
Urel-Hi	49	M	L	G	L	V	L	L	Y	V	A	V	V	L	I	S	N	G	V	S	G	L	A	N	V	D	A	K	S	K	A	I	M	N	I	F	V	G	G	D	S	P	L	C	V	M	W	S	L	S		
Urel-Lacto	0																																																			
Urel-Strepto	9	M	G	V	G	L	F	Y	V	G	A	V	L	I	D	G	L	M	L	L	G	R	I	S	P	R	G	A	T	P	L	N	I	F	V	G	G	L	Q	V	V	T	P	T	-	V	L	I	I			
AmiS-Myco	48	M	G	S	V	G	L	L	Y	V	G	A	V	L	F	V	N	G	L	M	L	L	G	T	V	P	V	R	S	A	S	V	L	N	I	F	V	G	G	A	L	Q	C	V	P	T	-	V	M	L	I	
AmiS-Rhod	48	M	L	G	L	V	L	L	Y	V	G	A	V	L	F	L	N	A	V	W	L	L	G	K	I	S	G	R	E	V	A	V	I	N	I	F	L	V	G	V	L	S	A	C	V	A	F	-	Y	L	I	I
AmiS-Pseudo	48																																																			
Urel-Hp	49	T	Y	S	A	L	N	P	T	A	P	V	E	G	A	E	I	A	Q	V	S	H	H	L	T	N	F	Y	G	P	A	T	G	L	L	F	G	F	T	Y	L	Y	A	I	N	H	T	F				
Urel-Hi	50	S	Y	S	T	F	H	P	T	P	A	T	G	P	E	D	V	A	Q	V	S	Q	H	L	I	N	F	Y	G	P	A	T	G	L	L	F	G	F	T	Y	L	Y	A	I	N	N	T	F				
Urel-Lacto	1																																																			
Urel-Strepto	9	Y	G	A	C	T	G	Q	Q	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	W	F	Y	G	S	A	T	G	L	L	F	A	I	F	T	Y	L	Y	S	A	I	N	T	I	F	
AmiS-Myco	49	L	Q	S	G	G	D	A	A	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I	F	A	A	S	G	L	Y	L	F	G	F	T	Y	L	W	V	A	I	N	N	V	T				
AmiS-Rhod	49	I	Q	A	Q	G	D	S	S	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V	L	A	A	S	G	L	Y	L	F	G	F	T	Y	L	Y	V	G	L	S	N	L	A				
AmiS-Pseudo	49	F	S	A	A	A	G	Q	G	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L	K	A	G	A	L	T	L	L	F	A	I	F	T	Y	L	W	V	A	I	N	Q	F	L			
Urel-Hp	140	G	L	D	W	R	P	Y	S	M	Y	S	L	F	V	A	I	N	T	I	P	A	A	I	L	S	H	Y	S	D	M	L	D	D	I	K	V	L	G	I	T	E	G	D	W	W	A	I	I	W		
Urel-Hi	147	N	L	D	W	K	P	Y	G	W	Y	C	L	F	V	T	I	N	T	I	P	A	A	I	L	S	H	Y	S	D	A	L	D	D	H																	

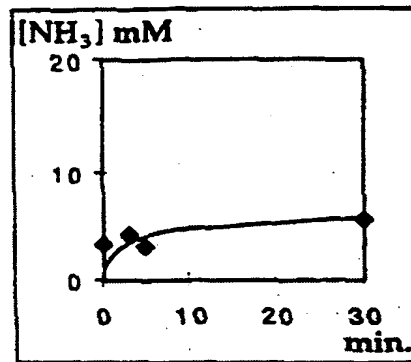
**FIG. 3A**

**FIG. 3B**

[illegible]

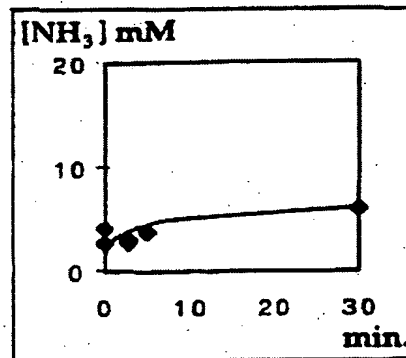
pH 7

Panel A :  
strain N6



**FIG. 4A1**

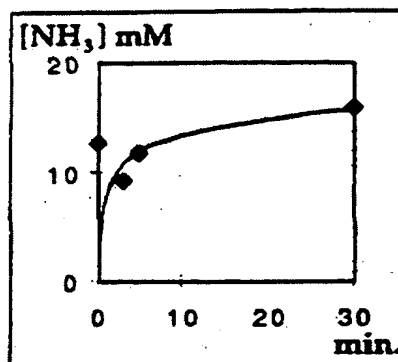
Panel B :  
N6-834  
( $\Delta urel$ )



**FIG. 4A2**

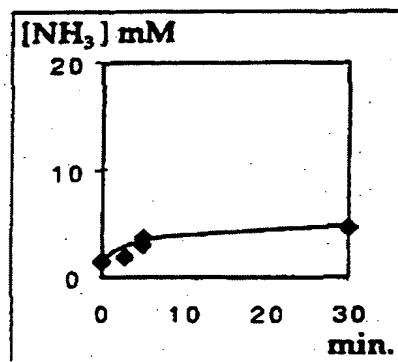
pH 5

Panel A :  
strain N6



**FIG. 4B1**

Panel B :  
N6-834  
( $\Delta urel$ )

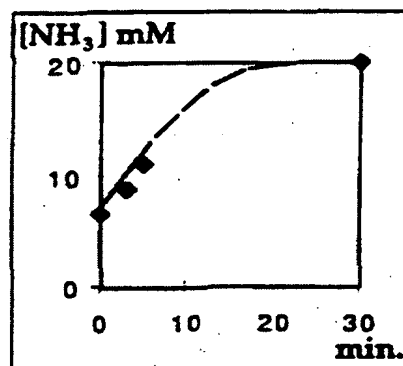


**FIG. 4B2**



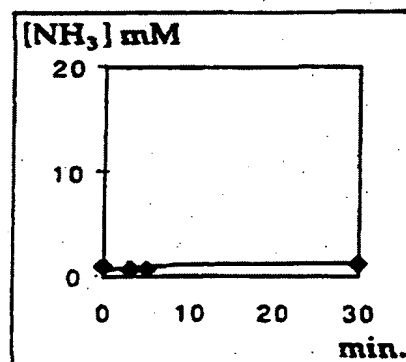
pH 2.2

Panel A :  
strain N6



**FIG. 4C1**

Panel B :  
N6-834  
( $\Delta urel$ )



**FIG. 4C2**